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# MOHAVE COUNTY MINER

## AND OUR MINERAL WEALTH

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### AMERICAN LEGION FILES FIRE DEPT. PETITION

With their usual progressive spirit the members of Swaseygame Post No. 14 American Legion, have practically assured to Kingman a fire company. Petitions were circulated by the members of the post and numerous signatures obtained to assure the calling of an election to establish fire zones and the creation of a fire company under the Arizona law. The petitions were filed last Monday with the board of supervisors and an election will soon be called.

Kingman has been sadly in need of a fire department with proper equipment and we feel sure that the people will now back up the legionnaires in their good work for fire protection. Many buildings have been destroyed in the town that might have been saved had there been necessary fire fighting apparatus and hydrants placed at street corners and in the middle of the blocks. There is sufficient pressure on the mains to insure good fire service, but the town lacks hose, cart, hooks, ladders and other essential equipment. An election will provide the method for the securing of this equipment and the town will be safeguarded against devastating fire, such as recently came to Oatman.

With proper fire protection insurance rates will fall materially, allowing of the carrying of fire protection by every part of the town. At the present time the frame structures in certain sections of Kingman are unprotected on account of this prohibitive rate of fire insurance, the underwriters refusing to take a chance where there is no possibility of the saving of structures that have no fire protection whatever. This condition will soon be obviated, we believe and the whole town will be benefited thereby.

### WILDCATS TO MEET FAST WINSLOW TEAM SUNDAY AFTERNOON

When the aggregation wearing the Wildcat uniforms lined up against Williams last Sunday, there were but three men on the team playing their regular positions. They were O'Connors, Norville and McMillan. Hook Smith was on first, Stan George pitching and Baldes was behind the bat.

Owing to the fact that several of the regular players did not make the trip to Williams, the boys felt a little shaky about their chances, but before the game had gone very far they found that their team was just as good as the opposing team of Williams. George pitched a good game and with better support would have had the game grabbed. As it was they had the game up until the ninth inning when Williams slipped over two runs ending the argument with an 8 to 7 score.

Baldes caught a great game and McMillan starred in center field, spearing some almost impossible shots.

Sunday the Wildcats line up against Winslow, the team that kept them from glomming the Flagstaff series on the Fourth. Manager Dudley and Captain Smith both contend that Winslow hasn't the best team and the Wildcats in full force next Sunday will endeavor to prove it.

Either McGowan or Hook Smith will go into the box for the Wildcats. If McGowan's arm is not right yet, it will be Smith. Either Grace or another lad who landed in town Wednesday night by the name of Thompson, will receive. Thompson, who is from the coast looked like the real thing in last night's practice.

Sunday's game should prove to be the best one we have had here so far this year and a big crowd is expected. Following is the box score for last Sunday's game:

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### NEW STATE HIGHWAY PICA TO NELSON OPEN

Wednesday last Anson H. Smith received the following wire from Assistant State Engineer T. S. O'Connell: "New state highway Pica to Nelson now open. Divert traffic."

This highway cuts out the almost impassible road between Nelson and Pica, through what is known as Nelson Canyon. The new road is on the north side of the Santa Fe railroad through the Wallapai Indian reservation, and has been built by the state. It will now be used largely by the tourist who has had to put up with the heartbreaking road from the plains west of Pica to the Mohave county road west of Nelson. It is expected that the road will be carried to a connection with the Mohave county road at Peach Springs, which would make a decided cutoff over the old roads.

### NEW SHAFT OF UNITED EASTERN DOWN 200 FT

The new shaft on the end property of the United Eastern is now down 200 feet and is going downward as fast as men and machines can do the work. This work is now in the hands of contractors and they are getting big results. It is proposed to sink to the 800 level before lateral work is carried off to the vein that is believed to pass through the property. This shaft is west of the shaft of the Red Cloud and it is expected that the vein picked up in the crosscut from the bottom of the 650 level of this property will be cut in the Eastern work. The Red Cloud shaft was carried down to the present level with the expectation of picking up the United Eastern ore shoot and it is probable that this shoot will be picked up if the shaft is carried 200 feet deeper. At the same time it is more than probable that a new ore shoot may be found in the territory west of the Red Cloud and that later the United Western may be induced to again take up development of their property. This territory appears to us as the best undeveloped section of Oatman and the work now under way should either prove or disprove the theory held by many mining men regarding the extent of the ore shoots along the Mother Lode.

### K. OF P. BAND CONCERT SATURDAY NIGHT

The K. of P. band will not play their usual concert this evening as they are engaged to play a concert before the opening of the dance to be given tomorrow evening by the Pythian Sisters. The concert will start at 7:45 P. M. and will continue for one hour.

This is an arrangement for this week only, however, and next week the band will play the usual concert on Friday at 7:30 P. M.

### RETURN FROM TRIP TO EL DORADO FIELD

Harvey Klotzsch and Earl Alderson returned to Kingman from the El Dorado oil fields Wednesday night.

Mr. Klotzsch spent several days in the field looking over his company's holdings and the field in general.

He says the El Dorado field is now producing more oil than any other field in the United States ever produced in the same length of time from the date of its discovery. The oil is of very good quality. It will be a long time however before the full extent of the field is determined. The Standard Oil Company is very heavily interested in the new field and going to a great expense in preparing to take care of the production.

The Border Oil Company, of which Mr. Klotzsch, Earl Alderson and J. H. Conway are the organizers, will start drilling on their holdings there probably within the next sixty days.

### MOHAVE COUNTY'S GOLD PRODUCTION LAST YEAR CLOSE TO THREE MILLION

Last year Mohave county's production of gold was close to \$2,000,000 more than any other county in the state and exceeded the entire production of all the counties by close to \$1,000,000. This production was secured from 203,158 short tons of ore, while its next largest competitor, Gila had an ore production of 7,415,052 short tons. The production of the county in metals was as follows: Gold, 137,972.32 ounces; silver, 147,612 ounces; copper, 121,125 pounds; lead, 513,902 pounds. The total value of the product of the county was \$3,976,437, giving us 7th place in the county production of the state. The total production of the state in gold, silver, copper, lead and zinc was \$114,606,077, as against \$111,157,872 for 1919.

Five counties produced more silver than did Mohave, this metal being a by-product of the copper smelters, and only one county produced zinc—Yavapai. Gila was the largest producer of copper, exceeding the production of Cochise county by nearly 60,000,000. Yavapai was third with a production of 114,937,080 pounds, being only 7,000,000 pounds below Cochise. The production of Yavapai came from two mines, the United Verde and United Verde Extension, although the Humboldt smelter produced some copper from foreign ores.

With the prospect of new mills in this county before the first of the

coming year it is the expectation that Mohave county will be running a close race with California and Colorado in gold production in 1922. The mines to make this high production are practically developed to the stage when large mills must be installed to care for the output, and these mines are capable of and sure to run production far into the millions of dollars. These properties are the Katherine, the Mossback, the Goldroad, the Gold Ore, White Hills, and the many smaller mines. In the development stage is also the Moss, Gold Dust, United American, Katherine Extension, Gold Chain and Roadside. A few of the small mines of Oatman and the other camps could be made to produce where there mills capable of handling the ores from the small mines that have capacity to produce ore that will run above \$20 in gold. The larger mills do not care to handle this class of ore because it may disorganize the system in vogue at the plants. If a mill is being run on \$10 ore and a small amount of higher grade is introduced, we take it, a proportionately higher solution will have to be used to care for the excess values, and also the mill ores of the mines in the Oatman field are neutral, while the other ores may be otherwise. Nevertheless, it will be but a short time until this condition, if condition there is, will be obviated by such milling facilities that all ores will be handled.

### ACTIVE DEVELOPMENT AT WHITE HILLS TO START IN FEW DAYS

Senator Kent Keller is in Kingman for a few days from the White Hills, where he has been looking after mining affairs. The management has gotten the big compressor in position on the Occident mine and within a few days the pump will be clearing the lower levels of that property of water. As soon as the water is taken out sinking to a new level will be under way and the drifts will be carried into the big ore body to the west. A crosscut is contemplated from the deep level into the Horn Silver vein, it being proposed to pick up the faulted portion to the north and carry development along the segment toward the old works farther to the east.

The new work contemplates a big campaign and the opening of the ore bodies on all the levels, insuring enough ore on which to operate the big mill for a long time. Leasers will also contribute to the output, insuring a high grade milling output. The camp is fast assuming a lively appearance, new families moving in and new leasers taking over blocks of ground on which shippable ore is being found.

### CROSSCUT ON 700 LEVEL OF THE AZTEC SHOWS UP WELL

Kean St. Charles accompanied Charles D. Ridgeway to Oatman this week for the purpose of sizing up that great gold camp. They report that the drift on the 700 level of the Aztec is now 160 feet in ore, the crosscut showing nine feet of \$15 rock. The distance between this shoot and the ore shoot of the Big Jim is estimated to be about 800 feet, and it is probable that this ore shoot is a continuation of that ore body. The company is also driving through the Sideline vein and getting a large amount of ore. This ore is of high grade and there appears to be a large tonnage of it. The Tom Reed is now putting in stopes on this ore.

A bad break on the Miner's newspaper press is the cause of the paper being late today. The press broke while running off the paper causing considerable delay while the broken part was being welded.

### MOSSBACK TO FURTHER EQUIP AND DEVELOP PROPERTY

The Arizona Mossback mining company has secured about \$105,000 that has been secured by a bond issue, the money, we understand, being used to further equip the big mine and to extend the scope of development. The Mossback will soon have electric equipment, if we are to judge by the campaign of development that has been mapped out. Owing to the heavy volume of water encountered on the 700 level it was thought best not to do extensive lateral development until a big station pump had been installed capable of taking care of any emergency.

The men in charge of the Mossback financing are among the big business men of the east, and these men have been getting matters in shape for the erection of a large milling plant, the further equipment of the mine and the sinking of the main shaft to a new level and the opening of a big working shaft to the surface where ores could be delivered to the mill at low costs. The equipping of this mine and the installing of a milling plant means much to the country surrounding the Mossback mines and this community expect a large production of gold to be added to the gold output of the county from this source.

### HORSE THIEVES TRAPPED BY OFFICERS IN DIAMOND CANYON

Backed up against the Colorado River which was too high for them to ford and with other avenues of escape cut off by Sheriff Mahoney's deputies, three horse thieves surrendered early this week to Deputies Daniels of Mohave County and Plummer of Yavapai.

The men had taken about 15 horses from the Lon Harmon ranch in Yavapai County and made for the Colorado river expecting to escape into the Northern Strip country. They had not planned on the Colorado being so high.

Sheriff Mahoney had men stationed between Clay Springs and Milkweed and when Daniels and Plummer ran them into Diamond Canyon there was nothing for them to do but fight or surrender and so they chose the latter course.

They were taken back to Prescott to answer to the courts of that county.

### GEORGE GRANTHAM STEPS UP TO COAST LEAGUE

George Grantham has taken another step upwards in the realm of baseball. He is now playing in the coast league with the Portland team.

The next step will no doubt be to the big league, probably with Detroit, who holds George's contract.

Last year Grantham got by with the northwest league and when this season started he stepped away from the gang up there by hitting better than any man in the league. His fielding was also good and they put him in the infield at short.

He is playing second for Portland and as soon as he gets his bearings in his new surroundings we expect to see him smashing out the pill again the same as he did in the league which he just left.

Grantham is temporarily out of the game with a broken finger and is now being used as a pinch hitter by the Portland Club. Yesterday he added one more hit to his record in the Coast League, making him 6 hits out of 14 times up and giving him a batting average of .429.

### KATHERINE EXTENSION TO START CROSSCUT

The shaft of the Katherine Extension company is now down 244 feet, contemporaneous with the 200 level of the Katherine, at which point a station is being cut preparatory to driving a crosscut to the south into and through the big vein. The bottom of the shaft is now in vein material and it is not thought that the distance to the vein will be great.

Good time was made in the sinking of this shaft, the work being in the hands of Sherman and Brethour, the original owners of the group. As soon as the crosscut has been driven to the footwall the company operating the property will carry development both ways on the vein to ascertain the location of the ore shoots. Should the same grade of ore be opened in the Extension that has been developed in the Katherine the district will take on an expansion that nothing else could bring it, as the extent of the big Katherine vein will be proved far toward the east. At the same time it will give to the outlying mines greater value and create incentive for the development of a great mass of veins abutting on the Mother Lode of the camp.

### PYTHIAN SISTER DANCE SATURDAY NIGHT

The Local Order of Pythian Sisters will give another of their popular dances tomorrow evening and all who are able to be present will enjoy an evening that none should miss.

This order has an altruistic department and the funds raised by the hard work of the members is given over to beneficent purposes and much good has already come of their efforts.

Everyone should turn out to enjoy an evening's fun and by so doing they are not only helping to preserve their youth, but adding to the coffers of a good cause.

### TO MAKE ECONOMIC SURVEY OF COUNTRY

L. M. Maynard, manager of the economic research department of the Citizens National Bank of Los Angeles, passed through Kingman this morning. He is on a 9,000 mile trip throughout the United States studying business conditions.

By request, C. J. Walters, manager of the Arizona Central Bank of Kingman met him at the train to give him information concerning local financial conditions. Mr. Maynard will interview bankers in several hundred cities before his return, after which a report will be issued, telling of the economic conditions of the country today. The Miner will publish a summary of this report if it is available, at a later date.

### MOVE BANK FIXTURES

The fixtures from the rooms formerly occupied by the Citizens Bank were shipped to Flagstaff this week. The offices have not as yet been rented.

### INCREASED EFFICIENCY FOR THE NEW C.O.D. MILL

By William P. De Wolf.

Increased efficiency is the dominating factor of the comprehensive development campaign just inaugurated by the Dudley Interests at the C. O. D. mine in the Cerbat range. Once it is in full swing the already generous output of mine and mill will be expanded at least fifty per cent and the property will be firmly established as the largest silver-producer in Mohave county. The new work is being pushed as rapidly as is compatible with what is termed "good mining", and is under the personal supervision of R. S. Billings, consulting engineer for the extensive interests owned by Morris B. Dudley and his associates in this county.

A double-compartment vertical shaft is being sunk 300 feet north of the small incline shaft which is now used for development and ore-hoisting purposes. The new shaft will cut the rich C. O. D. fissure, on its dip, at an approximate depth of 800 feet. Thereafter the incline shaft will be abandoned and development work in its entirety be prosecuted by medium of the new shaft. At and below a depth of 400 feet levels will be established in the new shaft, and crosscuts and drifts be driven in the ore. The powerful, electrically-driven hoisting and compressor plants at present in service at the incline shaft will be utilized for this purpose. Concurrently with the sinking of the new shaft additional machinery is arriving from Denver for the C. O. D. mill.

At this time the mill is handling 100 tons of ore a day and is turning out about \$40,000 worth of concentrates a month. With the additional units in operation its reduction capacity will be increased to 150 tons of ore a day and its output of concentrates be increased to approximately \$60,000 worth a month. The new (Continued on page 4)

### CREW OF MEN PUT TO WORK ON NEVADA-KATHERINE PROPERTY

A crew has been engaged to begin development work on the Nevada-Katherine group of mines lying along the west bank of the Colorado river, to the west of Katherine. The group was formerly known as the Homestake group, but the real veins were not touched by the former owners, no prospecting having been done to ascertain the potentiality of the larger veins. Since passing into the hands of Messrs. Shaw, Cushman, Cushman and Chafey a large amount of prospect work has been done on the claims and as a result a number of places have been found where outcrops show big gold values. Assays taken from a 16 inch streak gave results of 14 ounces gold, while many lower assays, but of milling grade have been taken from a big streak of ore in the larger vein of the group. This vein is believed to be a continuation of the Katherine, having the same general direction and the peculiar quartz carried by the Mother Lode. This vein is large and can be seen from the the Arizona side of the river. Mr. Chafey, who is to have charge of development, saw this vein when looking over the Katherine territory, but later when he wanted to visit it he had to take an automobile trip by way of Needles, 72 miles from Kingman, and then about 60 miles up the river to the mines. But now the mines are connected with the Arizona side of the field by motor boat and the trip can be made in twenty minutes, which is bringing the mines quite close to home.

The management of the mines has been delegated to Mr. Chafey, who came to this county in the interest of W. J. Loring. As the Loring work was surface prospecting and the weather being too torrid to allow of trenching and surface cutting being carried on without discomfort, Mr. Chafey has concluded to put on a development campaign on the Nevada-Katherine group for the present and see what can be brought forth.